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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,514	10/14/2005	Maki Oshima	HOK-0288	7467
	7590 10/03/2007 n & Grauer, PLLC	EXAMINER		
1233 20th Stree	et, N.W. Suite 501	MATOCHIK, THOMAS L		
Washington, DE 20036			ART UNIT	PAPER NUMBER
			1709	
			MAIL DATE	DELIVERY MODE
			10/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/553,514	OSHIMA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Thomas Matochik	1709			
	- The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period fo	Period for Reply					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAINS not firm e may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 Oc	ctober 2005.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
4)⊠	Claim(s) <u>1-8</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.	• .				
6)⊠	Claim(s) <u>1-8</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicat	ion Papers					
9)	The specification is objected to by the Examine	r. '				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	· · · ·				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	*					
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Notice of Draitsperson's Patent Drawing Review (PTO-948) Paper Nots) Notice of Information Disclosure Statement(s) (PTO/SB/08) Statement(s) (PTO/SB/08) Notice of Informal Patent Application Paper Nots) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et.al (US 6,296,940) in view of Oda et.al (JP 2002069750).

Regarding claim 1: Ito teaches a composition comprising an epoxy resin (A), a curing agent (B) and a phosphorous atom containing polyester (C) obtained by condensing a phosphorous compound containing a P-H linkage with an alcoholic hydroxyl group (abstract). Ito further teaches the phosphorous containing reactant shown in fig. 1 (col. 3, line 12):

fig. 1 9,10-dihydro-9-oxa-10-phosphaphenenthrene-10-oxide

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Ito does not teach the specific phosphorous compound cited, fig. 2, cited in the instant.

However, Oda teaches the structure shown in fig. 2 as being an excellent fire retarding compound (claim 2, formula 2). Ito and Oda are analogous art since they are both from the same field of endeavor, namely fire retardant compounds and compositions. One of ordinary skill in the art, at the time the invention was made would have been motivated to combine the teachings of Oda with those of Ito to obtain improved structural stability.

Regarding claim 2: Ito teaches a curing agent (B) containing a Novolac resin (col. 2, lines 62-64).

Regarding claims 3 and 4: Ito teaches an epoxy resin containing no halogens (col. 2, lines 25-30). Ito is silent on the epoxy equivalents, however the resins disclosed are the same as cited in the instant therefore one would expect the epoxy equivalent values would be substantially similar.

Regarding claims 5-8: Ito teaches a prepreg by varnishing the composition, dissolved in a solvent, onto a substrate, dried to form a metal clad, laminated sheet which is placed in a printed circuit board (col. 4, lines 21-28).

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas Matochik whose telephone number is 571-270-3291. The examiner can normally be reached on Monday-Friday 7:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TLM 9/27/2007

MARK EASHOO, PH.D. SUPERVISORY PATENT EXAMINER

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